

MAX Communication Server  
Release 7.5

Quality of Service  
Configuration Guide

June 11, 2015

This document describes how to add QoS tags for MaxCS RTP packets. These procedures have been validated on MaxCS Release 7.5.

## Configure the MaxCS Server

1. Open the Local Group Policy Editor on the MaxCS server: In Windows, click **Start**. In the Search box, enter **gpedit.msc** and press **Enter**.
2. Open MMC: In Windows, click **Start**. In the Search box, enter **mmc** and press **Enter**.
3. On the *File* menu, click **Add/Remove Snap-in**. In the dialog box, click **Group Policy Object Editor** and click **Add**.

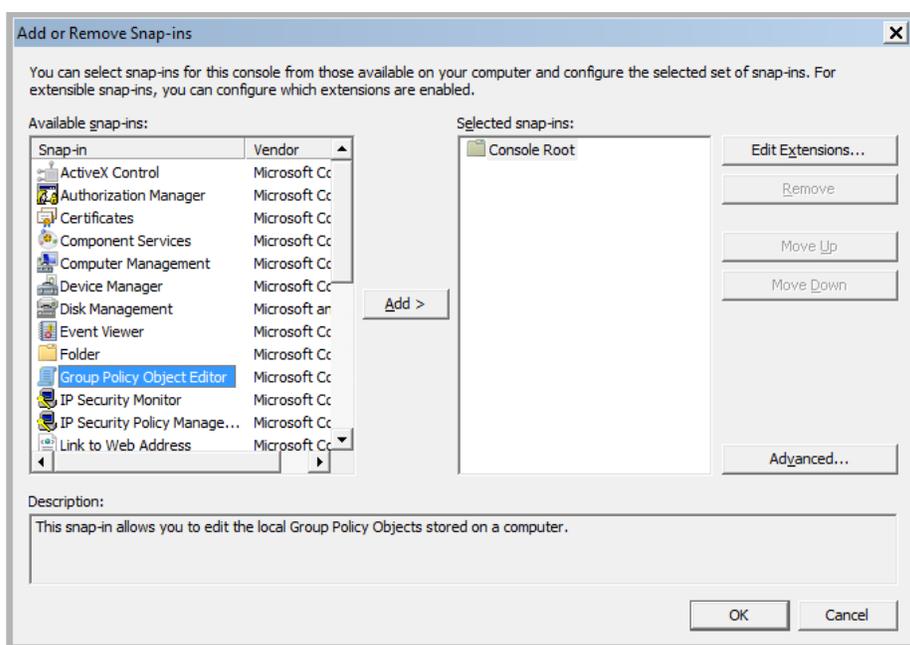


Figure 1: The Add or Remove Snap-ins dialog box

4. In the next dialog box, click **Browse**.
5. You can click either **This computer** to edit the Local Group Policy object, or click **Users** to edit Administrator, Non-Administrator, or per-user Local Group Policy objects.
6. Click **Ok**. Click **Finish**.
7. Switch back to the Local Group Policy Editor. In the left pane, expand **Local Computer Policy > Computer Configuration > Windows Settings**.
8. Right-click **Policy-based QoS** and select **Create new policy**.

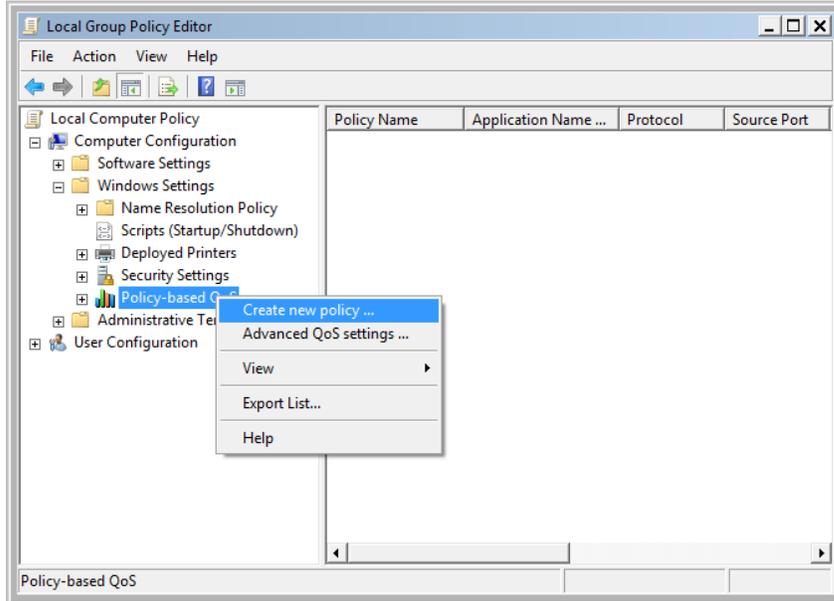


Figure 2: The Local Group Policy Editor window

9. In the new window, enter a policy name and specify a DSCP value from 0-63. Click **Next**.

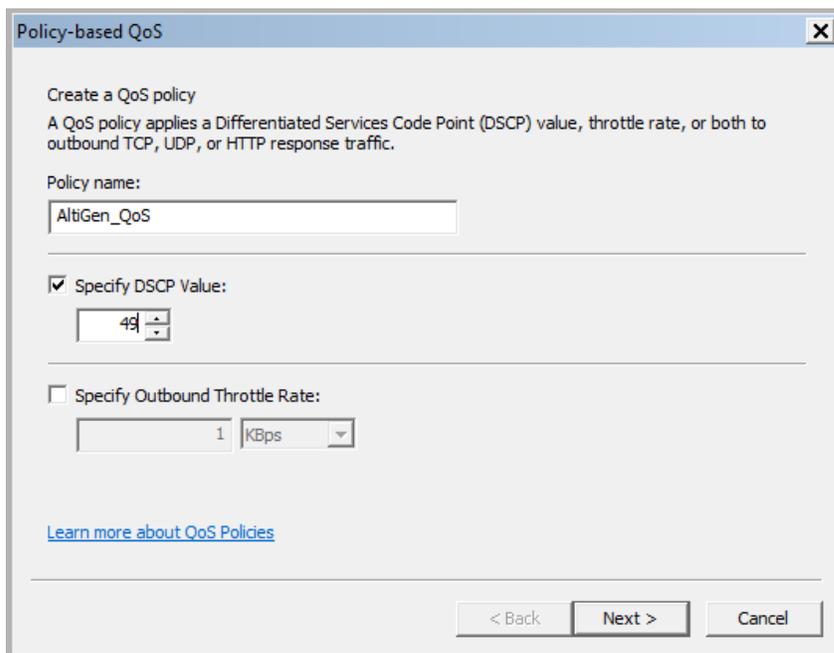


Figure 3: Enter a name for the policy and a DSCP value

10. Select **All applications** and then click **Next**.

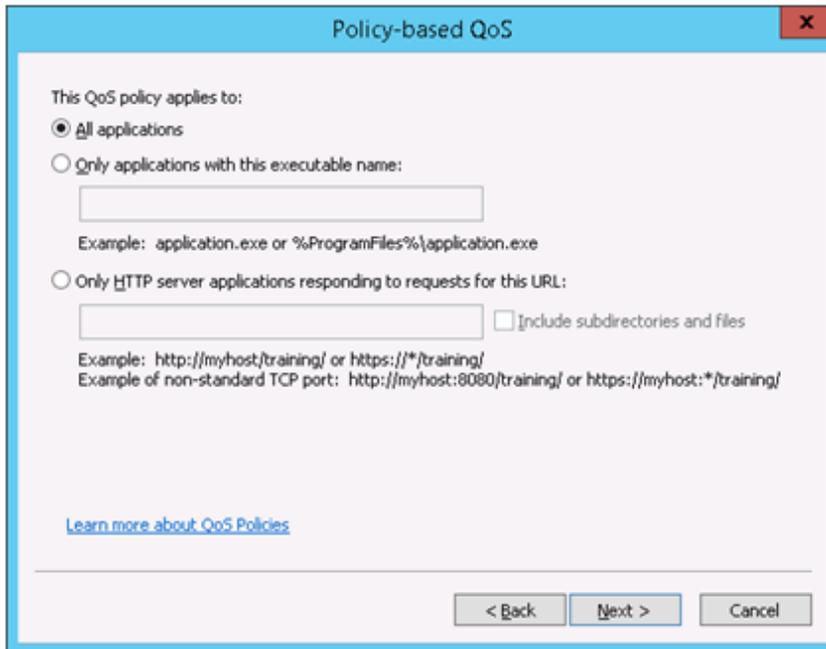


Figure 4: Specify the policy applies to all applications

11. Select **Any source IP address** and **Any destination IP address** in this panel and click **Next**.

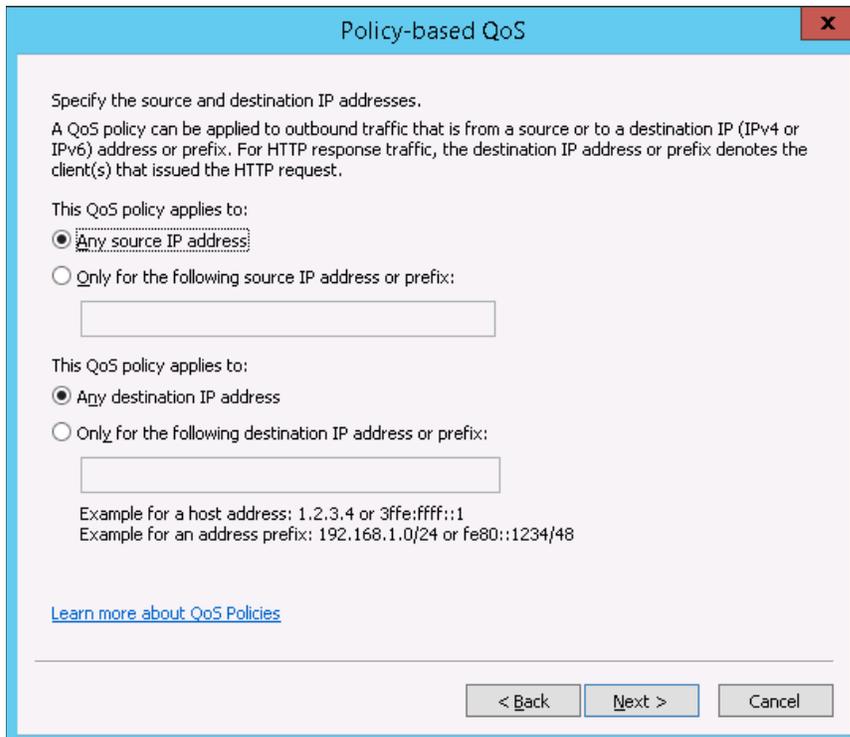
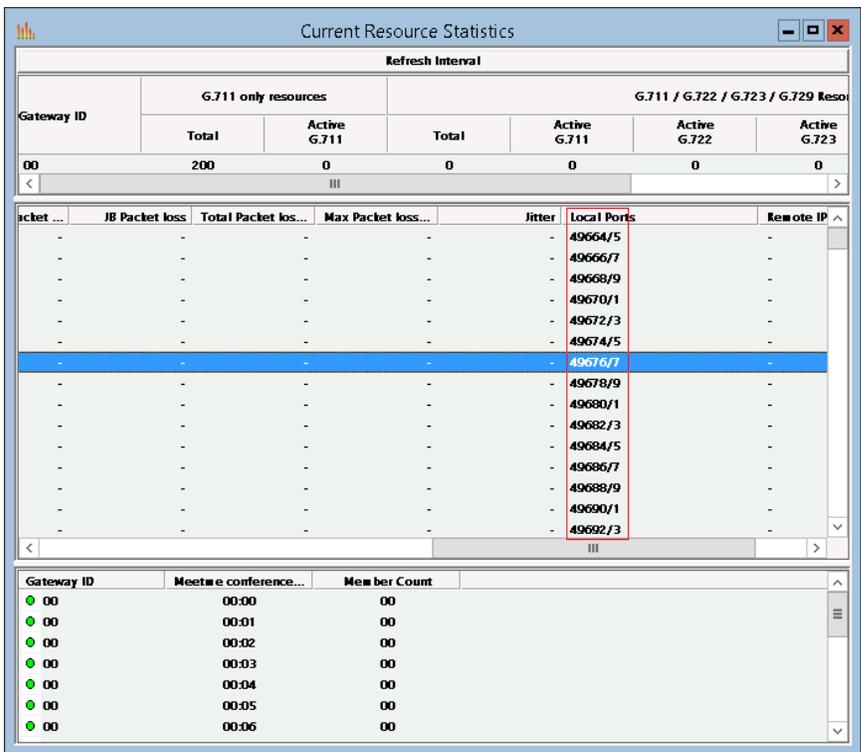


Figure 5: Specify source and destination IP addresses

12. Open MaxCS Administrator. Obtain the port range (in the *Local Ports* column) in the **Current Resource Statistics** window.



The screenshot shows the 'Current Resource Statistics' window with the following data tables:

Refresh Interval						
Gateway ID	G.711 only resources		G.711 / G.722 / G.723 / G.729 Resources			
	Total	Active G.711	Total	Active G.711	Active G.722	Active G.723
00	200	0	0	0	0	0

Packet loss	JB Packet loss	Total Packet loss	Max Packet loss	Jitter	Local Ports	Remote IP
-	-	-	-	-	49664/5	-
-	-	-	-	-	49666/7	-
-	-	-	-	-	49668/9	-
-	-	-	-	-	49670/1	-
-	-	-	-	-	49672/3	-
-	-	-	-	-	49674/5	-
-	-	-	-	-	49676/7	-
-	-	-	-	-	49678/9	-
-	-	-	-	-	49680/1	-
-	-	-	-	-	49682/3	-
-	-	-	-	-	49684/5	-
-	-	-	-	-	49686/7	-
-	-	-	-	-	49688/9	-
-	-	-	-	-	49690/1	-
-	-	-	-	-	49692/3	-

Gateway ID	Meeting conference...	Member Count
00	00:00	00
00	00:01	00
00	00:02	00
00	00:03	00
00	00:04	00
00	00:05	00
00	00:06	00

Figure 6: MaxCS Administrator Current Resource Statistics

13. Switch back to the QoS policy window.

- A. Select **UDP** for the protocol.
- B. Select **From this source port number or range** and enter the port range from step 12.
- C. Select **To any destination port**.
- D. Click **Finish**.

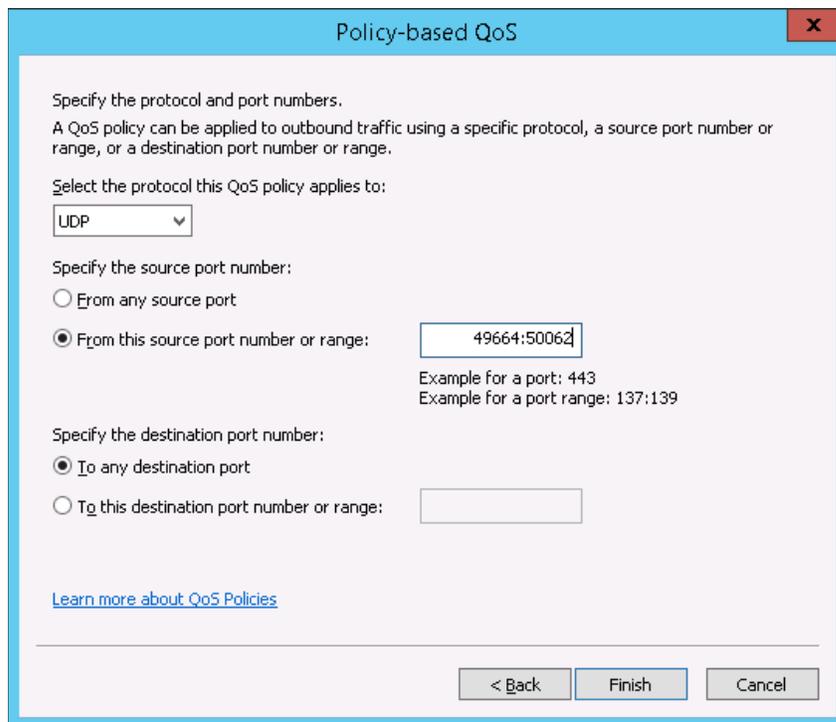


Figure 7: Set QoS options

## Configure Each MaxAgent Client System

Repeat the steps listed in the previous section on each MaxAgent client system: add the policy with the same steps, but use port number 30000.

## Notes

If you had a Windows client machine on which you are pushing Policy Based QoS, and you noticed in a subsequent network trace that the DSCP value is 0x00, perform these steps:

1. If you need to make DSCP values to take effect on the adapter which does not have Domain access, you need to add the following registry on the system:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\QoS
Type: REG_SZ
```

Name: Do not use NLA

Value: 1

Create the key "QoS" if it does not exist.

After you create the QoS registry key, reboot the computer.

2. If step 1 does not work, create an additional registry entry:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\Parameters]
"DisableUserTOSSetting"=dword:00000000
```

Reboot the server and check the behavior.

If the system belongs to a domain, log in as a domain user; logging in as the local administrator or a user will not work.